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Figure 1 is a schematic diagram of a multi-layered structure, likely a waveguide or optical fiber, showing three horizontal sections labeled a, b, and c. The structure is composed of several vertical layers and a central core.

- Section a:** The top layer is labeled 16. A wavy line labeled 18 is shown within this layer.
- Section b:** The middle layer is labeled 8a and 8b. A dashed line labeled 18 is shown within this layer.
- Section c:** The bottom layer is labeled 20. It consists of four vertical lines representing the boundaries of the layers.

Arrows indicate the direction of light or signal flow from left to right. The diagram illustrates the interaction of light with the layered structure, showing how the light path is affected by the different layers and the wavy line 18.

(57) Abstract: The invention relates to a method for acquiring a substantially complete depth map from a 3-D scene. Both depth values and derivatives of depth values may be used to calculate a pixel dense depth map with the steps of acquiring partial depth map from said 3-D scene, acquiring derivatives of depth information from said scene, and extending said partial depth map by adding non-relevant information to said partial depth map, creating a pixel dense full depth map being spatially consistent with both said partial depth map and said derivatives of depth information.

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